SOV-113-58-8-9/21

AUTHORS:

Yatsenko, N.N., Candicate of Technical Sciences and Sozon-

tov, P.A.

TITLE:

The Dynamometric Truck of the "DM-21" Type (Dinamometriches-

kaya mashina DM-21)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 8, pp 27-30 (USSR)

ABSTRACT:

A new model of a dynamometric machine of the "DM-21" type has been designed. It consists of a chassis of the "ZIL-151" type car, on which an electric motor of the "DK-202 B" type, manufactured by the "Dynamo" Plant is installed. A trolley-bus traction motor is used as a brake generator. A trolley-bus starter-rheostat of the "KF-2A-1" type is used as a resistance. At the rear of the driver's cabin, a standard covered hood is installed. The front of it contains the "YaAZ-204 V" type engine and a second "DK-202 B" type electric motor, both installed on a separate chassis. A hydraulic dynamometer is installed in the rear part of the frame. The total weight of the "DM-21" is about 10,000 kg and the maximum brake-torque is 36 kgm. Figure 7 shows the traction characteristics of the "YaAZ-214" and "GAZ-63" type cars. Figure 9 shows the traction characteristic of the "YaAZ-214"

Card 1/2

SOV-113-58-8-9/21

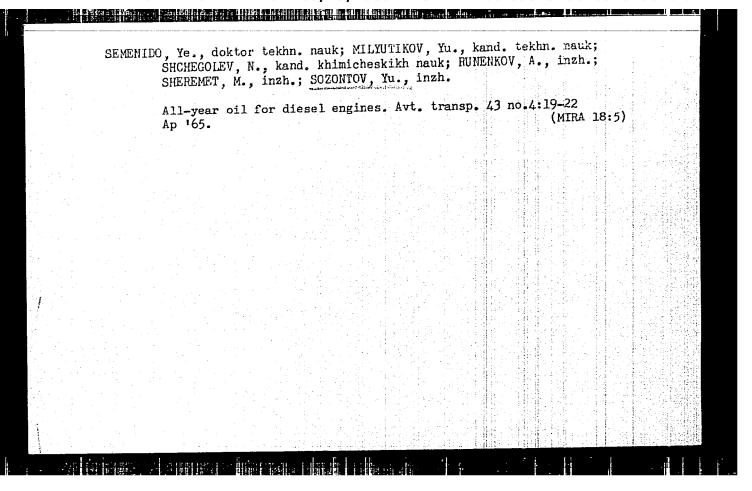
The Dynamometric Truck of the "DM-21" Type

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type car when taken with the "DM-21". The "DM-21" type machine can also be utilized for figuring economical characteristics of cars and for the analysis of the car-roadability on soft ground and snow. There are 6 diagrams, 4 graphs, 1 photo and 3 Soviet references.

1. Automobile industry--USSR 2. Trucks--Design 3. Trucks--Test methods

Card 2/2



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ACCESSION NR: AT4004737

8/2922/63/007/000/0296/0306

AUTHOR: Sozy*kin, M. F.

TITLE: Method of observing the moisture transfer from an evaporating surface to the atmospheric boundary layer using a steam-impervious film

CLASS RESIDENCE REPORTED AND A PROPERTY OF THE PROPERTY OF THE

SOURCE: Vses. nauchn. meteorologich. soveshch. Trudy*, v. 7. Fizika prizemnogo sloya, Leningrad, 1963, 296-306

TOPIC TAGS: meteorology, hydrometeorology, micrometeorology, reservoir evaporation, antievaporation film, air water moisture transfer, heat transfer, water albedo, atmospheric boundary layer

ABSTRACT: The author discusses his "molecular method" to observe moisture transfer by retarding water molecules with a steam-impervious film. He discusses the underlying principles of his method and cites the advantages of the application of these principles. He explains in detail the mathematical formula for his method with its theoretical derivation and proof. As part of his proof, he subjects the theoretical mathematical computations to a comparison with practical computations obtained through experiments. The desirable specifications and designs for laboratory apparatus to be used are also described.

Card 1/2

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USSR / Forestry. Forest Crops.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24909.

Author : Sozykin, N. F.

Inst : Not given.

Title : Experiment in Establishing Irrigation Afforestation.

Orig Pub: Sb. rabot po lesn. kh-vu. Vses. h.-i. in-t lesovod-stva i mekhaniz. lesn. kh-va, 1956, vyp. 32, 19-36.

Abstract: An experimental section or irrigation afforestation was arranged in the Sarpinska lowlands. Data on the rooting and preservation of the plantings is given. Best results for almost all species were achieved on sandy soils. Post-planting irrigation on dark colored soils heightened the rooting of all species;

Card 1/2

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Sozy	KIN SE, N. K.
USSR/ Scien	ntists - Economics
Card 1/1	Pub. 45 - 16/16
Authors Title	Gerasimov, I. P.; Ivanova, E. N.; Larin, I. V.; Nikitin, S. A.; Sozykin, N. K.; and Fridland, V. M. Memories of I. I. Folimonov
Periodical	1 Izv. AN SSSR. Ser. geog. 6, 10B - 109, Nov - Dec 1954
Abstract	In announcing the death on 22nd June 1954 of Ivan Isodorovich Folimonov (1880 - 1954) the life history and work of this economist is recalled. Folimonov is said to have also been an oustanding naturalist well informed in agriculture. He distinguished himself as a research worker, teacher and writer.
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H/004/61/000/013/001/003 D018/D105

AUTHOR:

Spacal, Lev

TITLE:

Radiation and man

PERIODICAL:

Tudomány és Technika, no. 13, 1961, 436-438

TEXT: The article which represents an interview granted to the author by Professor Ferdinand Herčik, doctor of medicine, doctor of natural sciences, corresponding member of the Czechoslovak Academy of Sciences and director of the Biophysical Institute of the Czechoslovak Academy of Sciences, deals with effects of radioactive radiation on the body in general and with research in this field carried out by various Czechoslovak scientific institutions. According to Professor Herčik, the first Czechoslovak Biophysical Congress held in Tatranská Lomnica at the beginning of May 1961, discussed the training of scientists and various biophysical problems, such as effects of radiation on the organism, protection against such radiation, molecular biology, influence of low temperature on living organism, biophysical measuring methods, biophysical instruments, etc.

Card 1/2

H/004/61/000/013/001/003 D018/D105

Radiation and man

The Biophysical Institute of the Czechoslovak Academy of Sciences in Brno, in operation since 1960, has been studying the effects of radioactive radiation on health. At the Medical Department of the University in Košice a radiobiological center has been established. At Prague research is being conducted on the diagnostics of diseases caused by radioactive radiation while the Biophysical Institute at Hradec Králové studies the effects of radioactive materials absorbed by the body. Research is also being conducted on the treatment of diseases caused by radiation. A new diagnostical method of determining radiation damages is expected to be developed in the near future. Czechoslovak scientists are participating in the preparation for the first International Biophysical Congress to be held in Stockholm in the summer of 1961. The Biophysical Institute of the Czechoslovak Academy of Sciences keeps constantly in touch with biophysicists in Leningrad, Moscow and in Hungary. There are 5 figures.

Card 2/2

H/004/61/000/026/001/005 D286/D304

AUTHOR:

Dubský, Vilda and Spáčal, Lev

TITLE:

Fantasy becomes reality

PERIODICAL:

Tudomány és technika, no. 26, 1961, 904-905

TEXT: The article describes an interview given to the authors by Engineer Jaroslav Šlechta, chief designer of the HC-3 helicopter, Engineer Jaromír Schindler, well-known technical writer and Engineer Jiří Matějiček, designer of the "Standart 16" and "Standart 17" gliders. All three engineers are associates of the "Zechoslovak Aircraft Engineering Research and Development Institute. The Czechoslovak aircraft industry specializes in sports planes and small airliners. In the field of large aircraft engineering high technical levels have been reached in the USSR with the "TU"-models and the "Il-18". The passenger-carrying capacity of these aircraft will probably be increased, requiring, however, also an increase of the power plant capacity. Experiments with VTOL aircraft are under-

Card 1/2

Fantasy becomes reality

H/004/61/000/026/001/005 D286/D304

way and a helicopter rotor is being developed by which even 500 km/hr can be achieved. The Soviet "Mi-6" jet-powered helicopter has an enormous lifting capacity, yet its speed does not exceed 300-320 km/hr. In the development of STOL aircraft, automation will play an important role, e.g. in case of a convertiplane no pilot would be able to fly without automatic control. The shape of aircraft to be flown at the end of the 20th century will differ from the present types. These aircraft will have practically no wings, since the size of the wings is relative to speed. VTOL aircraft having an auxiliary power plant for take-off would need a flat wing-shaped fuselage for horizontal flight. There are 5 figures.

Card 2/2

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2/048/62/000/026/001/004 D287/D307

Dubsky, V. and Spačal, L. (Reviewers)

: ENOHTUL

When towards the moon?

TITLE:

Věda a technika mládeži, no. 26, 1962, 904-905

Summary is given of replies by 4 different experts on astronautics to the following questions: 1) Which were the most important events or discoveries in recent months? 2) Is the USSR important events or discoveries in recent months? 3) When will man or the USA leading in the conquest of the universe? 3) When will man or the USA leading in the conquest of the universe? 3) When will land there? finally land on another planet and who will land there? Dr. B. Valniček. Astronomicky ústav Československé akademie věd, Ondřejov (Astronomical Institute of the Czechoslovak AS, Ondřejov): 1) The flight of Nikolayev and Popovich which proved the possibility of coordinated action in space and the flight of the 2 cosmic probes liariner II and Mars I. 2) The advantages of the USSK in the conquest of space are as follows: heavier rockets and more economic methods of return to 3) Rockets could be sent to the moon, carrying a crew, but for unsolved medical problems. He anticipates that man will land

Card 1/3

三/048/62/000/026/001/004 D287 D307

When towards the moon?

on the moon in 1965 or 1966, probably both Russian, as merican space cabins are not satisfactory. M. Pick Engineer; director of the Geofyzikální ústav Československé akademie věd (Geophysical Institute, Czechoslovak AS): 1) Determination of the shape of the earth by using satellites; further, the phenomenon of the van Allen radiation bands (which have adverse effects on living organisms) and transmission of television pictures through interplanetary space (2) The Soviet lead in astronautics can be explained by the fact that only one research authority coordinates all investigations not several competing authorities and firms as in the USA); 3) The first Soviet cosmonaut will probably land within the next ten years. J. Dvorák, Doctor of Medical Sciences, Ústav leteckého zdravotnictví v Fraze (Institute of Medicine of the Air Force, Prague): 1) The problem of visits of cosmonauts from other planets to the earth has been given serious consideration as well as the problem of the presence of microorganisms in meteorites; 2) Dr. Dvořák considers that the space research program is more realistic in the USSR and that 3) man will land on the moon as soon as the problem of the rocket's return to earth has been J. Sadil, chairman of the Lunar and Planetary Section of the solved. Gard 2/3

Jhen towards the moon?

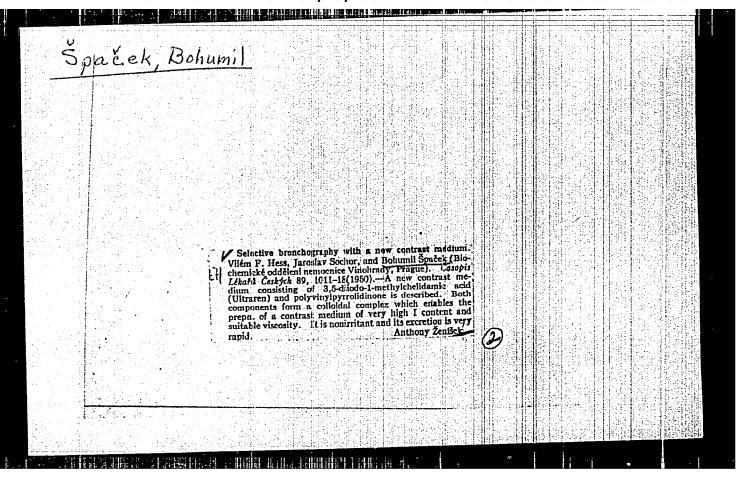
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D287/D307

Geskoslovenská astronautická komise (Caschoslovak astronautical Committee): 1) The launching of hariner II and hars I. 2) The advantages in the Soviet program lie in systematic research, perfect preparations (e.g. plotting of the trajectory and maintenance of course). The Americans hold the record for commitcations across very large distances; 5) The flight around the moon in a man-manual rocket should be realized within 3-4 years. Automatic probes should last envarious planets within the next 10 years and the same applies for the landing of man on the nearest planets. Soviet commonsts will probably be the first to fly around the moon. There is 1 figure.

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SPACEK, Bohumel, Doc MUDr

Case of bronchial adenoma. Cas.lek.cesk. 91 no.37:1065-1067 12
Sept 52.

1. Reditel Ustavu pro experimentalni chirurgii v Praze.
(BRONCHI, neoplasms,
Adenoma, case report)

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Digmar, Doc. Dr.

Experimental study on revascularisation of ischemic myocardium.

Ges. lek. cesk. 93 no.51-52:1393-1397 24 Dec 54.

(MTOCARDIUM, diseases
 ischemia, revascularisation)

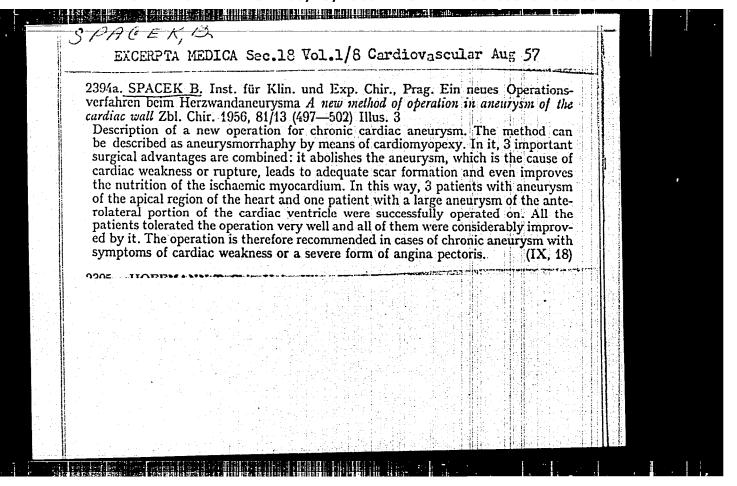
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SPACEK, Bohumil, Doc., Dr.

Surgery of cardiac aneurysm after myocardial infarct. Cas. lek. cesk. 44 no.33:893-896 19 Aug 55.

1. Ustav klinicke a experimentalni chirurgie Praha-Erc, (HEART, aneurysm after. myocardial infarct, surg., new technic) (MYOCARDIAL INFARCT, complications heart aneurysm, surg., new technic)

Surgical therapy of cardiac aneurysm following myocardial infarct. Rozhl. chir. 35 no.5:320-328 May 56. 1. Ustav klimike a experimentalni chirurgie, Praha-Krc. Ustav chorob obehu krevniho, Praha-Irc. (COROHARY VESSELS, aneurysm caused by myocardial infarct. surg. (Cs)) (MYOCARDIAL IMPARCT. compl. cardiac aneurysm, surg. (Cs))	S	PACEK,	Bohumil; BERGMANN, Karel	ig myoca	rdial infa	rct.	
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	Effect of ganglion-blocking drugs on shock. Rozhl. chir. 36 no.4:197-208 Apr 57.
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Experiences with aneurysmorrhaphy & cardiomyopexy for postinfarction changes in the myocardium. Cas. lek. cesk. 96 no.50:1537-1543 13 Dec 57. 1. Ustav klinicke a experimentalni chirurgis. Praha-Erc. prednosta doc. Dr. B. Spacek. (MYOCARDIAL INFARCT, surg. aneurysmorrhaphy & cardiomyopexy for postinfarction changes in myocardium (Cz)) (HEART, surg. same)	SPACEK,	Behumil (Praha-Krc, Budejovicka 800) Experiences with aneurysmorrhaphy & cardiomyopexy for postinfarction
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Country : CZECHOSLOVAKIA Category: Pharmacology. Toxicology. Tranquilizers.

Abs Jour: RZhBiol., No 6, 1959, No 27730

Author : Spacek, B.; Koszler, H.; Racenberg, E.

: On the Influence of Neuroplegic Agents on the Condition Inst Title

of Shock.

Orig Pub: Rozhl. chirurg., 1957, 36, No 4, 197-208

Abstract: No abstract.

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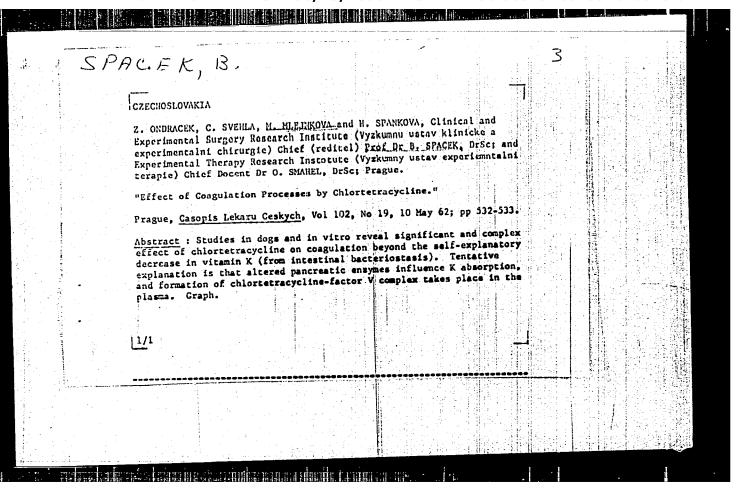
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SPACEK, B.; PELESKA, B.; KLAIN, M.

Implantation of a bettery cardiostimulator ELEMA in a patient with complete AV block and Adams-Stokes syndrome. Rozhl. chir. 43 no.2:118-126 F'64.

1. Ustav klinicke a experimentalni chirurgie v Praze; reditel: prof.dr.B.Spacek, DrSc.

PELESKA, B.; SPACEK, B.; KLAIN, M.; PISA, Z.; HAMMER, J.

Our experiences with implantation of cardiostimulators in AV block and Adams Stokes syndrome. Rozhl. chir. 44 no.1:16-23 Ja '65.

1. Vyzkumny ustav pro elektroniku a modelovani v lekarstvi, Praha; Ustav klinicke a experimentalni chirurgie, Praha a Ustav pro choroby obehu krevniho, Praha.

SPACEK, B.; PELESKA, B.; ZASTAVA, V.; HANMER, J.; PISA, Z. Technicka spoluprace: RABL,M.; ELAZEK,Z.; ZMRHALOVA,A.; GERNA,H.; MAJEROVA, H. Reversibility of cardiac contraction after temporary obstruction of the coronary arteries. Cas. lek. cesk. 104 no.1:1-11 8 Ja '65

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel - prof. dr. B. Spacek, DrSc.) a Ustav pro choroby obehu krevniho v.Praze (reditel - prof. dr. J. Brod, DrSc.).

SPACEK,	AM 35 (E) A
	Accidents from the viewpoint of protection and saving of life. Cas. lek. cesk. 104 no.32/33:853-857 6 Ag '65.
	1. Ustav klinicke a experimentalni chirurgie v Prase (prednosta prof. dr. B. Spacek, DrSc.).

CZECHOSLOVAKIA

UDC 617.541-001-085.816

SPACEK, B.; ZITKO, K.; Institute of Clinical and Experimental Surgery (Ustav Klinicke a Experimentalni Chirurgie), Prague, Director (Reditel) Prof Dr B. SPACEK.

"Importance of Prolonged Artificial Respiration in the Treatment of Closed Chest Injuries."

Prague, Casopis Lekaru Ceskych, Vol 105, No 20, 20 May 66, pp 544 - 547

Abstract /Authors' English summary modified 7: Two cases of block fractures of the skeleton of the chest with paradoxical respiration and severe respiratory insufficiency are described. Both patients recovered completely after prolonged artificial respiration by means of an Engstrom apparatus. This method is recommended in tretament of block fractures of the chest wall. 6 Western, 1 Czech reference. (Manuscript received Apr 66).

1/1

- 208 -

FECAK, B.; MAJOR, K.; SPACEK, F.

Effect of the binding substance on the quality of amidopyrine tablets.

Cesk. farm. 11 no.7:342-345 S '62.

1. Katedra galenickej farmacie Farmaceutickej fakulty Univerzity Komenskeho, Bratislava Leciva nlp., provozovna Zizkov, Praha. (AMINOPYRINE) (TABLETS) (GELATIN) (STARCH)

: CZECHOSLOVAKIA

: Chemical Technology. Chemical Products (Part 3). dountry Catogory=

Food Industry

Abs. Jour. : Ref Zhur-Khim, 1959, No 7, 25154

: Spacek, J. alitadi'

Institut.

: Evaluation of the Quality of Food Products Title

Orig. Pub. : Prumysl potravin, 1957, 8, No 10, 534-537

: The aims of the determination of the quality of Abstract products with indication of the range, problems

involved and organization of control, are discussed. The question of the objectiveness of the control, of the selection of the persons who make the quality evaluation, the technique of the selection of samples, the order of the eva-

luation of their quality, and the processing of the results of the testing, are treated in

greater detail .-- V. Grzhivo

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4-176

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001652620018-0"

CZECHOSLOVAKIA

NEMECEK, S.; PETR, R.; SPACEK, J.; NADVORNIK, P.; Neurosurgical Clinic (Neurochirurgicka Klinika) Head (Prednosta) Prof Dr R. PETR, Chair of Histology and Embryology (Katedra Histologie s Embryologii) Head (Vedouci) Prof Dr V. VRTIS, Medical Faculty, Charles University (Lek. Fakulty KU), Hradec Kralove.

"Microscopic Findings in the Acoustic Nerve and in Acoustic Neurinoma."

Prague, Ceskoslovenska Neurologie, Vol 29, No 5, Sep 66, pp 289-

Abstract /Authors' English summary 7: It is important to operate on acoustic neurinoma as early as possible and to determine the origin and microstructure of these tumors. A survey of the histological, histochemical, and electronoptic findings made by the authors is presented. 4 Figures, 9 Western, 4 Czech, 1 East German reference.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652620018-0

Z/031/61/009/002/008/008 A205/A126

AUTHORS:

Kadlec, L., Engineer and Spacek, J., Docent, Engineer

TITLE:

New technology for hot-bending of tubes

PERIODICAL:

Strojírenská výroba, v. 9, no. 2, 1961, 98 - 99

TEXT: The article lists laboratory and sem-production-scale tests on viration filling and compacting of sand into tubes being prepared for hot bending. The tests were performed with the purpose of replacing the tiresome and insufficient manual compacting with pneumatic hammers. Since the vibration equipment mainly used in foundries is not very efficient, tests were based on the principle used for compacting the earth with rammers or for driving piles into the ground with vibration and vibration-shock pile drivers. Very good results were achieved in laboratory tests, and the percentage of compacting, compared with locally filled sand, reached 18 - 25%: Best results were achieved when vibration was applied during filling and when tubes were not rigidly connected with the vibrator. The principle of the vibration equipment is shown in Fig. 2. Semiproduction tests were performed at the tube plant of the "Kralovopolska strojirny", National Enterprise in Brno. The vibration equipment was used for filling and compacting of

Card 1/3

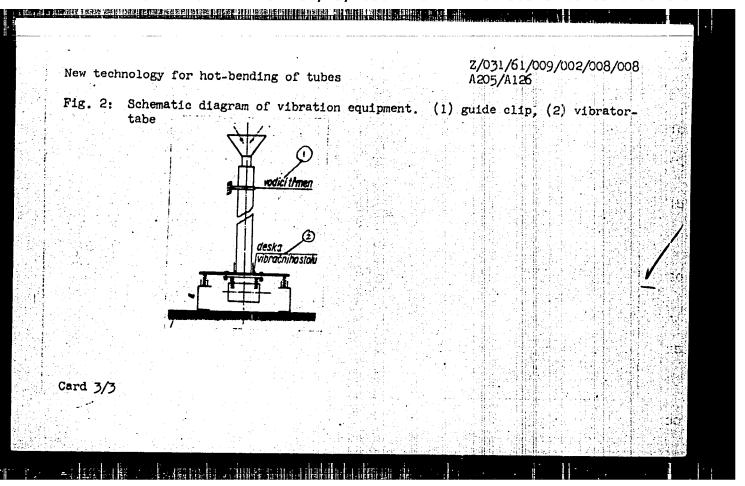
New technology for hot-bending of tubes

Z/031/61/009/002/008/008 A205/A126

sand into tubes 44 - 270 mm in diameter and 4 - 6 m long. The successfully produced bends measured r = 2.5 to 3 D. The compacting percentage reached 18 - 236, additional compacting with pneumatic hammers was not necessary since it increased the compacting percentage only by 0.2 - 1.56. Conventional "EVU 500" and "EVU 1000" were used and the time for sand filling and compacting was 5 - 7 times shorter than that required by the old technology. The tests showed, that the centrifugal force of the vibrator should be 30% higher than the total weight of the vibrated mass, and that the shaking amplitude of the vibrator table should be 1 - 1.6 mm. The size of the vibrator must be adjusted to the vibrated load. To use one vibrator size for tubes of all diameters, smaller tubes are either vibrated in bundles, or vibrators are provided with the possibility to alter their kinetic moments. The described sand filling and compacting method is also used at the construction of the "Slovnaft" National Enterprise. There are 6 figures.

ASSOCIATION: Vojenská akademie A. Zápotockého (A. Zapotocky Military Academy)

Card 2/3



CAPOVA, H.; DUBANSKA, H.; HAHN, P.; HUTAK, D.; JILEK, J.; KOLDOVSKY, O.; NECAS, O.; NOVAK, P.; SEJNOHA, L.; SPACEK, J.

The mount of total body fat determined by skin fold thickness in males from 16 to 35 years. Cesk. gastroent. vyz. 15 nc.7:540-555 N '61.

1. Fyziologicky ustav CSAV - Praha, Ustav leteckaho zdravotnictvi - Praha, Vojensky ustav hygieny, epidemiologie a mikrobiologie - Praha. (ADIBOSE TISSUES)

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PHASE I BOOK EXPLOITATION

CZECH/2369

Ceskoslovenska Akademie Ved. Sekce technicka

Proudění v lopatkových strojích (Flow Through Turbomachinery) Praha, Nakladatelství Československé Akademie Ved, 1958. 413 p. (Series: Its: Sborník ústavu pro vyžkum strojú) Errata slip inserted. 1,250 copies printed.

Scientific Ed.: Jan Jerie, Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Resp. Ed.: Ladislav Hrdina; Tech. Ed.: František Končický.

PURPOSE: This collection of papers is intended for engineers and scientific workers in the field of turbomachinery.

COVERAGE: The collection covers turbomachinery theory, investigations of the flow of working substance in basic elements of turbomachines, phenomena accompanying flow and variable with time, and investigations of various problems

Card 1/7

Flow Through Turbomachinery CZECH/2369	
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II. FLOW RESEARCH IN BASIC ELEMENTS OF TURBOMACHINERY	
4. Horejsi, Milan, Engineer, VUTT. Systematic Research on Airfoil Cascades	95
Discussion: Hibs , Miroslav , Engineer , VUIT Ring-type Diffusers Hosek , Josef , Engineer , Doctor , VZLU Masek , Zdenék , Engineer , VZLU	110 123 124
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Discussion: Kucera, A., UMS (Institute of Mathematical Machines, Czech Academy of Sciences). Basic Functional Elements of the Anapos Analog Computer	223
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13.	Vitvar, Mirko, Engineer, CKD Blansko. Investigation of the Ten-blade Kaplan [Propeller] Turbine	364
14.	Seitler, Bohumil, Engineer, CKD Blansko.	
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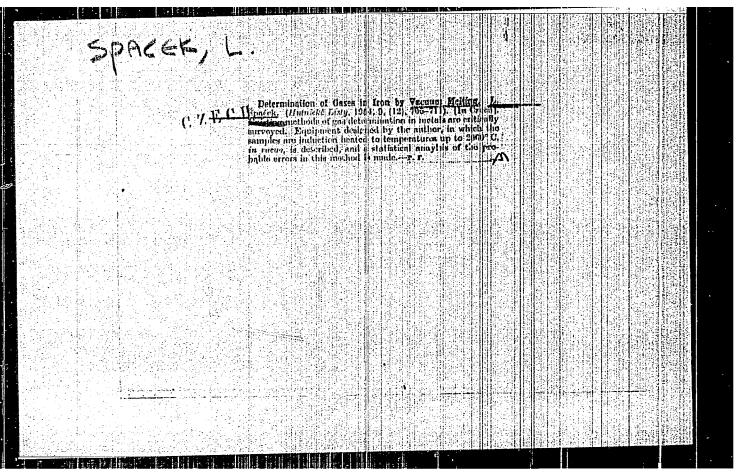
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	Jerie, Jan, ed., Engineer, Doctor, Corresponding Member of the Jan, ed., Engineer, Doctor, Engineer, Engin
	Nakl. CAV, 1962. 627 p. 1000 copies
	Ed. of Publishing House: Warle Moravo
	Končicky. PURFOSE: The book is intended to familiarize turbine designers with recent developments in the design of gas turbines and to present recent developments which may be helpful in designing more efficient turbines.
	COVERAGE: The book comprises articles by leading turbing components, experts on thermodynamic cycles, flow research in turbing components,
	burning of fuel in combustion chambers, axial compression of fuel in combustion chambers, axial compression characteristics of turbines manufactured in Czechoslovikis.

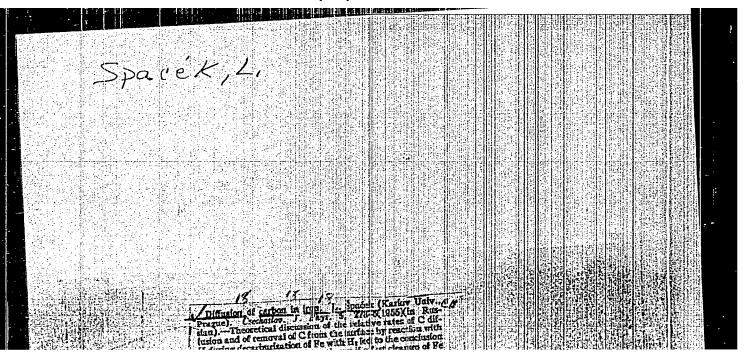
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Basic Problems in the Construction (Cont.)	z/ 6284		1 1 5 4 1 1 1
L. Svršek (Research Institute for Crude Oil and Hydrocarbon Bases, Bratislava). Heavy Fuel Oils for Gas Turbines	251		
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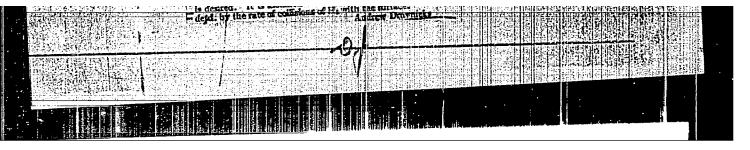
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	the problem of d	iffusion of car	on in iron. P.	118.	
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SPACEK, L.

More work on pure iron; also, remarks by J. Bednar and others. p. 479

Vol. 5; no. 4, July 1955
CESKOSLOVENSKY CASOPIS FRO FYSIKU
Praha, Gaechoslovakia

So Eastern European Accession Vol. 5, No. 4, 1956

SPACEK, L.

Domain structure of polycrystalline materials. p. 395

Vol. 5, no. 4, July 1955
CESKOSLOVENSKY CASOPIS PRO FYSIKU
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

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CZECHOSLOVAKIA/Magnetism - Ferromagnetism.

: Ref Zhur - Fizika, No 6, 1959, 13204 Abs Jour

: Spacek, Ladislav Author

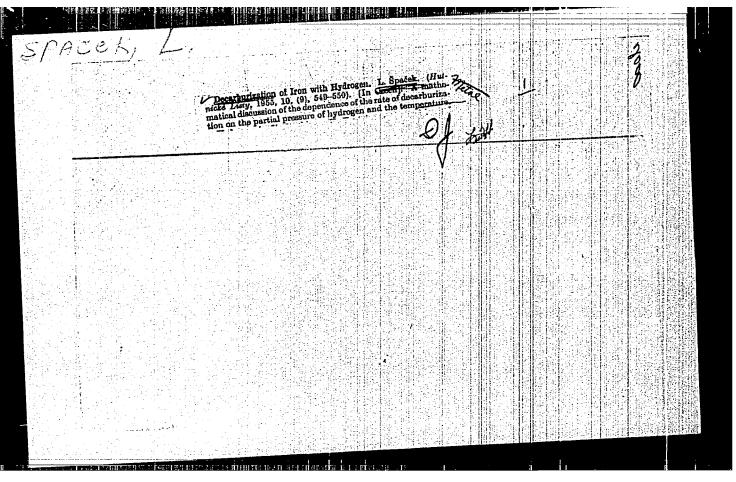
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: Domain Structure of Polycrystalline Materials. Title

: Ceskosl. casop. fys., 1955, No 5, 578-579 Orig Pub

: See Referat Zhur Fizika, 1956, No 5, 13645. Abstract

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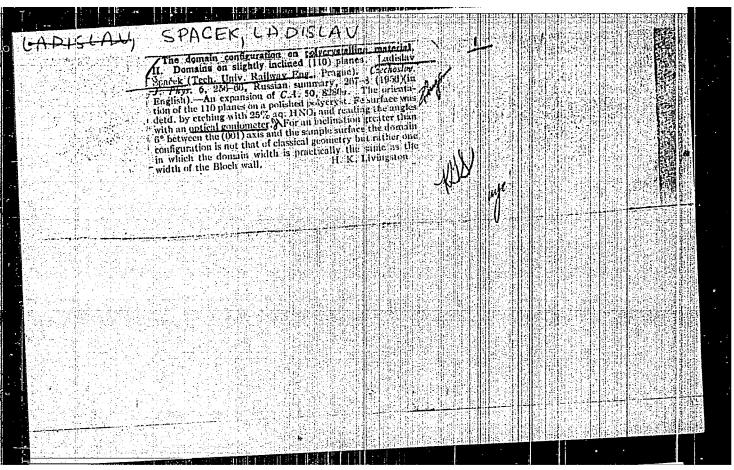


TIUSTY, Jiri [Tlustyy, Irzhi, inzhener, laureat Gosudarstvennoy premii, Chekhoslovatskaya Akademiya nauk]; SPACEK, Ledislav [SHPACHEK, Iadislav, doktor, laureat gosudarstvennoy premii]; SHVARTS, V.V., [translator]; EUDINOV, V.A., kandidat tekhnicheskiy nauk, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor

[Self-induced vibrations in machine tools] Avtokolebaniia v metallorezhushchikh stankakh. [Supplement: Ladislav Spacek. The theory of
coordinate relations for systems with several degrees of freedom.
Translated from the Gsech] Priloshenie: Ladislav Shpachak. Teoriia
koordinatnoi svissi dlia sistemy so mnogimi stepeniami svebedy.
Rorevod s cheshskogo V.V.Shvartsa. Moskva, Gos.nauchno-tekhn. isd-vo
mashinostroit. lit-ry, 1956. 394 p.
(MIMA 10:1)

(Machine tools--Vibrations) (Differential equations)

pacek, L.								
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ESTISLAN SPACEK, Sahislan

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CZECHOSLOVAKTA/ Magnetism. Ferromagnetism.

Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6847

: Spacek Ladislav

: Higher Railroad School, Prague, Czechoslovakia Author

: Structure of Domains in Polycrystalline Materials. Part II. Domains on Planes Making & Small Angle With (110). Inst Title

Orig Pub : Ceskosl. casop. fys., 1956, 6, No 3, 313-323

: A study is made of the magnetic structure of polycrystalline iron with particular attention to the (110) surface, Abstract

which is rotated somewhat relative to the [110] axis and the grinding plane. The domain structure is observed in individual crystals as a function of the angle of inclination. The author describes the preparation of the specimens, the effect of mechanical and electrolytic polishing on the domain structure, and the action of anisotropic etching. The connection between the domain structure and the crystallographic orientation is determined. In a region of

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CZECHOSLOVAKIA / Magnetism. Ferromagnetism.

F-4

Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6847

Abstract : of angles of 6° between the [001] axis and the grinding plane, when the (110) plane is inclined to the [110] axis, there occurs a very rapid change in the character of the domain structure, in which classical scheme changes into forms in which the width of the domain is practically equal to the width of the boundary layer. An attempt is made to explain this result on the basis of the energy balance, and

good agreement is obtained thereby with the experimental results. For Part I, see Referat Zhur - Fizika, 1956, 13645.

Card : 2/2

Inst

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CZECHOSLOVAKIA/Magnetism - Ferromagnetism.

: Ref Zhur - Fizika, No 6, 1959, 13206

Abs Jour

: Spacek, Ladislav : Structure of Closing Surface Domains on the (100) Author

Surface of Iron. Title : Ceskosl. casop. fys., 1957, 7, No 6, 666-672

Orig Pub

Abstract : See Referat Zhur Fizika, 1959, No 1, 1081.

Card 1/1

CZECHOSLOVAKIA/Magnetism - Ferromquetism.

: Ref Zhur Fizika, No 12, 1959, 27566

Abs Jour Spacek, Ladislav

Technical University of Railway Engineering, Prague, Author

Czechoslovakia Inst

The Energy of Periodic Surface Structures in Ferro-

rametism. Title

Chekhosl. fiz. zh., 1959, 9, No 2, 186-199

Oric Pub : An experimental and theoretical investigation was **Nostract**

rade of the domain structures for unfavorably oriented surface layers of ferromagnetic substances. The connection between the surface structure and the

crystallographic orientation of the crystals was confirmed. All the components of the total energy of

the surface layer were determined. A general solution

Card 1/2

CZECHOSLOVAKIA/Magnetism - Ferromagnetism.

: Ref Zhur Fizika, No 12, 1959, 27566

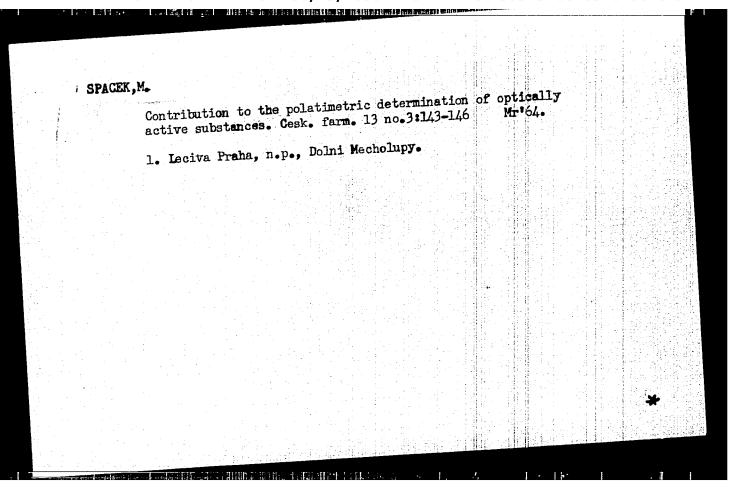
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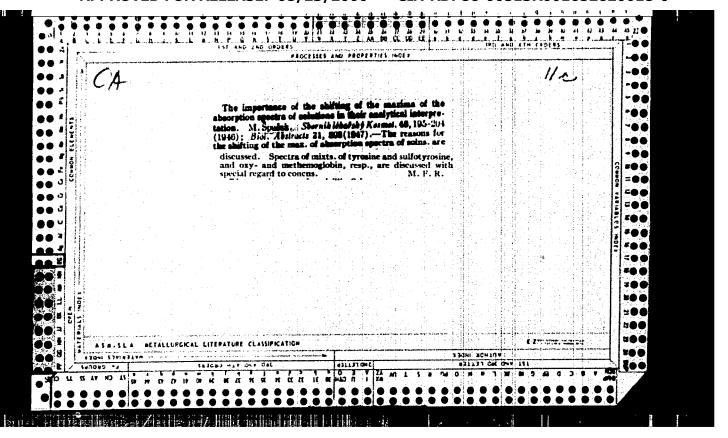
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SPA	TIE, Jan, ed., Engineer, Doctor, Corresponding Member of the Greches alovak Academy of Sciences (Pasie Problems in the
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	Nakl. CAV, 1962. 02
·Sı	ponsoring Agency: Ceskoslovenska Publishing House: Marie Moravcová; Tech. Ed.: František
	d. of Publishing House: Koncicky. URPOSE: The book is intended to familiarize turbine designers with present recent developments in the design of gas turbines and to present recent developments in the design of gas turbines are effected by the present some research results which may be helpful in designing more effected turbines.
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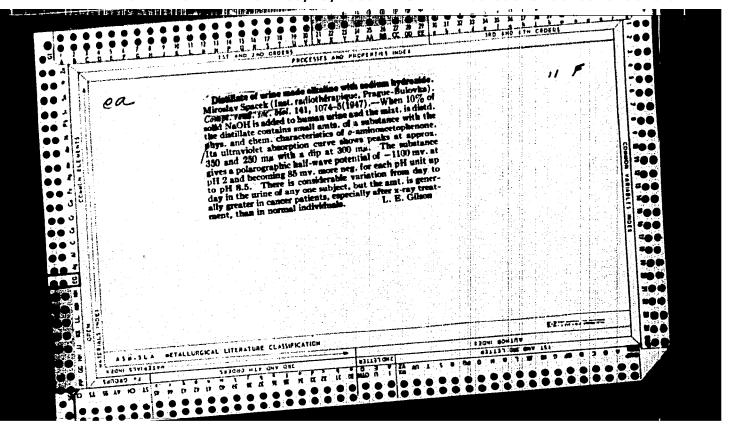
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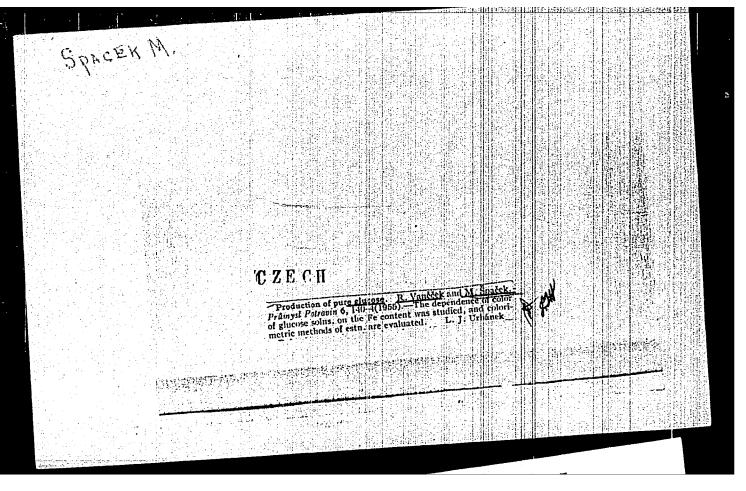
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J-12

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application - Carbohydrates and refinement

Abs Jour

: Referat Zhur - Khimiya, No 2, 1958, 6147

: Spacek Miroslav

Author

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: Some Problems Concerning Quality Determination and Re-

Title

finement of Fructose Sirup

Orig Pub

: Prumysl potravin, 1957, 8, No 6, 320-325

Abstract

: Methods are considered of determining the quality of fructose sirup (determination of solids and their composition, degree of acidity, ash content). It is shown that pycnometric and refractometric methods of determination of solids yield inaccurate results, which depends primarily on proportions of fructose and glucose. The polarimetric

Card 1/2

UZECHOSLOVAKIA / Chemical Technology. Chemical Products and J-12 Their Application - Carbohydrates and refinement

APPROMED FOR RELETAGE hu08/281/2000 No 2CD9/RDP86400513R001652620018-0"

Abstract

: method is also unreliable, since it determines only these two sugars. It is shown that the conductometric method is suitable in this case. A description is given of experimental work on purification of fructose sirup with ion-exchangers and activated carbon; this method of purification ensures the production of colorless, ash-free sirups.

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DOPITA, Miloslav, inz., SPACEK, Otakar, inz.

Requirements of the safety bores for sinking shafts in the Ostrava area. Geol pruzkum 6 nc.8:228-230 Ag '64

1. Sdruzeni ostravsko-karvinskych dolu, Ostrava; Vystavba ostravsko-karvinskych dolu, Ostrava.

CZECHOSLOVAKIA

MIBIN, N; SPACEK, P.

Institute of Macromolecular Chemistry of the Czechoslovak Academy of Sciences, Frague (for both)

Frague, Collection of Czechoslovak Chemical Communications,

"Structure and Properties of Mydrophilic Polymers and Their Gels. V. Diffusion in Gels."

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Z/008/61/000/001/002/005 E112/E253

AUTHOR:

Špaček, Václav

TITLE:

Zirconium

PERIODICAL:

Chemické listy, 1961, No. 1, pp. 16-25

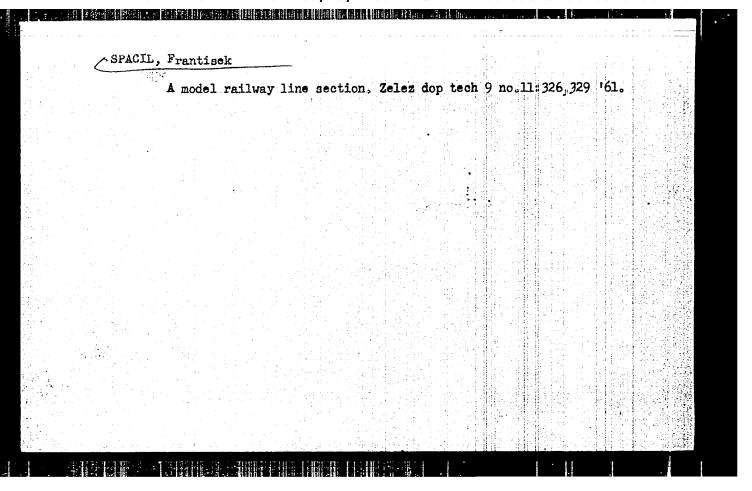
TEXT: The present paper is a literature review on zirconium up to and including 1959. It deals with (1) Occurrence in nature (distribution of some elements, including zirconium is shown in a table). (2) Physical and chemical properties. (The following data are tabulated: (a) Atomic constants; (b) natural isotopes and their relative distribution; (c) radioactive isotopes; (d) physical constants of metallic zirconium; (e) zirconium contents and accompanying materials in zirconium concentrates. (3) Preparation of zirconium (a flow sheet, showing its preparation from zirconium concentrates by the method of Kroll, Z.anorg. Chemie. 234,42,1937 is included). (4) Alloys of zirconium. (5) Applications. No contribution to the chemistry of zirconium either by the author or other Czechoslovak workers is quoted. There are 41 references: 2 Soviet and 39 non-Czech.

ASSOCIATION: Ustav pro výzkum rud, Praha

Card 1/1

(Institute for Ore Research, Prague)

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Coupling of aryloxy O-acetlo acids with diazonism salts. V. Ettel. J. Weichet, and M. Spacif (Coll. Trav. chim. Tehd ost., 1950; 16, 201-216)—In AcOlf the coupling of PhO-CH₄-CO₂H with diazotised amines occurs in the same manner as with the corresponding phenolic ethers. Addition of a trace of H₂SO₄ to the medium causes the replacement of O-CH₄-CO₂H by OH (almost quant. in the case of 2-C₁₂H₄-O-CH₄-CO₂H).

m-C₁H₄(OH)₂ (1 mol.) and NaOH (2 mol.) in H₂O are mixed with a solution of CH₂CO₂H (1 mol. + 10%) and NaOH (2 mol. + 10%) and boiled for 2 hr., giving, after acidification, m-phenylenedioxydiacetic acid (1), m.p. 191-192°, converted by boiling H₂SO₄-MeOH into the Me₃ ester, C₁₃H₄O₆ (II) (86%). Diazotising m-Ni₄-C₁H₄-O-CH₂-CO₂H with NaNO₂ in dil. H₃SO₄ (1:3) at >3° and heating the solution slowly to 80° gives m-OH-C₃H₄-O-CO₂H (~80%), m.p. 145-150°, transformed by boiling H₂SO₄-MeOH into Me m-hydroxyphenoyacetole, C₃H₁₀O₄ (III), m.p. 76-78°, b.p. 168-169°/1-2 mm. 2:4:1-(NO₃)C₄H₃-Mi₄ diazotved in AcOH-cone. H₂SO₄ is diazotised by ize-C₃H₁₀O-NO and the diazonium salt (IV) is pptd, as an oil by addition of Ez₂O. It is purified by diasolution in AcOH, pptm. by Et₄O and is used in AcOH. Hand IV in AcOH for 20 hr. at 0° give 2:4 dimitrobenzymen-m-discarbomethoxymethoxyphenoxyne,

give 2:4 dinitoben remain-malitear hand the xymethexy) bensent, $\hat{\epsilon}_{18}\Pi_{16}O_{19}N_1$ (V), m.p. 162-163°, I and 3-hydroxy-5-2':4'-dinitrobenic measurement acid. $\epsilon_{18}\Pi_{19}O_{18}N_4$ (VI), m.p. 234-235° (decomp.). I and IV in an Acolf overnight at 6° furnish V.

SPACIL, J.

and 2' I dinitrobeneness-m-di (cosboxymethoxy)benzens, C14H1018N,3H10. m.p. 203-204° Short boiling of this compound or of V in AcOH containing a trace of conc. H,SO4 and keeping the solution at room temp. for 24 hr. gives VI. Etazotising 2: 5: 1-C4H2C1. NII, In conc. H4SO4 and proceeding as in the case of 2: 4: 1-(NO), C4H, NII, coupling this solid diazonium salt with II in AcOH furnishes 4.2': 5'-dichlorobentenezo-m-di (carboxymethoxy)benzene, C4H100NC1, m.p. 209-210° III and IV furnish VI. Coupling IV with 2-C10H1. C0-H1. SO4H in AcOH gives 1.2': 4'-dimitrobenzenezo-2-naphthal. C14H10NN, m.p. 298-300° (decomp.), identical with the product obtained from IV and 2-C11. OII. Diazotising (NaNO4) b-NII, C114. O'CII, CO4H in dil HCl at 0° and gradually adding PhOH in aq. Na, CO4, gives Napp.-1'-hydroxybenzenezo-phenoxyacetate, C14H104N, Na, converted by CII, Cl CO2Na into azo-(p-carboxymethoxybenzene), C14H100N, m.p. 250°, also obtained from (N C11, C)H1, NaOII, and CII, Cl CO4H. Coupling diazotised 2: 5: 1-C4H2C1. NII, with m. OII-C4H, O'CH2. CO1H2 gives 3-hydroxy-6-2: 5'-da blorobenzenezophenoxyacetic acid, C14H10N, N., n.p. 232-233 (decomp.). Similarly diazotised p-NO4-C4H, NII, (crists 3-hydroxy-6-p'-mirrobenzenezophenoxyacetic acid, C14H10N, N.H1, 0. N.H2. N.H2. 222-233 (decomp.). Similarly diazotised p-NO4-C4H, NII, C14H10N, N.H2. 1. N.H2. 222-233 (decomp.). Similarly diazotised p-NO4-C4H2. NII, crists 3-hydroxy-6-p'-mirrobenzenezophenoxyacetic acid. C14H10N, N.H2. 1. N.H2. 222-233 (decomp.). Similarly diazotised p-NII2-C4H4-SO4H and III give a product isolated as the Ba salt.

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